

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Yankovich (Reg.42,240) on behalf of Paul Greeley (Reg.31,019) on 4/19/2011.

The application has been amended as follows:

Please replace claim 1 as follows:

1. (currently amended) A method for supporting versioning of data in a content management system, said method comprising:

maintaining a first table, by a computer, to store an identifier of a most recent version of a data item; and

maintaining a second table, by said computer, to store an identifier of an older version of said data item,

wherein, when said data item is to be updated,
 - (i) said second table is updated to include said identifier of said most recent version of said data from said first table, so that said second table stores both of said identifier of said older version of said data item and said identifier of said most recent version of said data item, and
 - (ii) said first table is updated to store an identifier of a new version of said data item,

wherein a request for a version number zero (0) of said data item as part of a query, a retrieve operation, or an update operation is interpreted as a request for said data item in accordance with said identifier of said new version of said data item in said first table, and

wherein a request for a version number zero (0) of said data item as part of a delete operation is interpreted as a request for said data item in accordance with an identifier of an oldest version of said data item in said second table.

Please replace claim 5 as follows:

5. (currently amended) The method of claim 3, further comprising generating said (version number -1) value for successive versions of said data item by incrementing said (version number - 1) value from zero (0) to n, wherein n is an integer.

Please replace claim 6 as follows:

6. (currently amended) The method of claim 2, further comprising generating a value for successive versions of said data item by incrementing said version number from zero (0) to m, wherein m is an integer.

Please replace claim 17 as follows:

17. (currently amended) A system for supporting versioning of data in a content management system, said system comprising:

a memory;

a module that maintains (a) a first table to store an identifier of a most recent version of a data item in said memory, and (b) a second table to store an identifier of an older version of said data item in said memory,

wherein, when said data item is to be updated,

(i) said second table is updated to include said identifier of said most recent version of said data from said first table, so that said second table stores both of said identifier of said older version of said data item and said identifier of said most recent version of said data item, and

(ii) said first table is updated to store an identifier of a new version of said data item,

and

wherein a request for a version number zero (0) of said data item as part of a query, a retrieve operation, or an update operation is interpreted as a request for said data item in accordance with said identifier of said new version of said data item in said first table, and

wherein a request for a version number zero (0) of said data item as part of a delete operation is interpreted as a request for said data item in accordance with an identifier of an oldest version of said data item in said second table.

Please replace claim 21 as follows:

21. (currently amended) The system of claim 19, further comprising a module that generates said (version number - 1) value for successive versions of said data item by incrementing said (version number - 1) value from zero (0) to n, wherein n is an integer.

Please replace claim 22 as follows:

22. (currently amended) The system of claim 18, further comprising a module that generates a value for successive versions of said data item by incrementing said version number from zero (0) to m, wherein m is an integer.

Please replace claim 31 as follows:

31. (currently amended) A storage medium having computer readable program instructions embodied therein for supporting versioning of data in a content management system, which when executed implements actions of:

maintaining a first table to store an identifier of a most recent version of a data item;
maintaining a second table to store an identifier of an older version of said data item; and
performing an operation, wherein, when said data item is to be updated,

(i) said second table is updated to include said identifier of said most recent version of said data from said first table, so that said second table stores both of said identifier of said older version of said data item and said identifier of said most recent version of said data item, and

(ii) said first table is updated to store an identifier of a new version of said data item,
and

wherein a request for a version number zero (0) of said data item as part of a query, a retrieve operation, or an update operation is interpreted as a request for said data item

in accordance with said identifier of said new version of said data item in said first table, and

wherein a request for a version number zero (0) of said data item as part of a delete operation is interpreted as a request for said data item in accordance with an identifier of an oldest version of said data item in said second table.

Please replace claim 35 as follows:

35. (currently amended) The storage medium of claim 33, comprising program instructions for generating said (version number -1) value for successive versions of said data item by incrementing said (version number - 1) value from zero (0) to n, wherein n is an integer.

Please replace claim 36 as follows:

36. (currently amended) The storage medium of claim 32, comprising program instructions for generating a value for successive versions of said data item by incrementing said version number from zero (0) to m, wherein m is an integer.

Please cancel claims 10-11, 25-26, 39-40

Any inquiry concerning this communication or earlier communications from the examiner should be directed to THU V. HUYNH whose telephone number is (571) 272-4126. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cesar B. Paula can be reached on (571) 272-4128. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thu Huynh/
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